



## Confirmation of Product Type Approval

**Company Name:** MCT BRATTBERG AB

**Address:** SE-371 92 KARLSKRONA KARLSKRONA Sweden

**Product:** Fire Stop System

**Model(s):** MCT Brattberg Cable Transit System of type RGP and RGPO in sizes 50S & 50L to 300 with sleeves S, SFR or SFRB.

### Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	23-2372493-PDA	19-OCT-2023	18-OCT-2028
Manufacturing Assessment (MA)	19-GB4021967	28-NOV-2019	27-NOV-2024
Product Quality Assurance (PQA)	NA	NA	NA

### Tier

3 - Type Approved, unit certification not required

### Intended Service

Marine & Offshore Applications - Cable penetrations in bulkheads and decks of fire Class A-0 through A-60, B-0 through B-30, and F-0 through F-30 for Steel Bulkheads and Decks.

### Description

MCT Brattberg Single/Multi Cable Circular Penetration Seal Modular Firestop Transit System. Type: RGP#50 RGP#70 RGP#100 RGP#125 RGP#150 RGP#200 RGP-300 Installed in MCT Brattberg Mild or Stainless Steel Circular frame Types: S, SFR, SFRB and SFRBO. RGP cable penetrations (either pipe penetration for RGP-300) peconsisting of: MCT Brattberg mild or stainless Steel Frames filled with MCT Brattberg 60mm thick utilizing halogen-free Lycron self#lubricating transit blocks of type Standard, Addblock, U-block, Handiblock and EMI modules and accessories.

### Ratings

Fire Resistance - RGP-50(2") short, RGP-50(2") long, RGP-70(3"), RGP-100(4"), RGP-125(5"), RGP-150(6"), RGP-200(8"), RGP-300(12") for use with sleeves: S, SR, SRB and SRBO are rated to A-0, A-15, A-30, & A-60, B-0, B-15, & B-30.

Watertightness: RGP- 50 short, RGP-50 long, RGP-200, RGP-8", SR-25, SR-150 - 5 bar g. hydrostatic test.

Gastightness: RGP- 50 short, RGP-50 long, RGP-200, RGP-8" - 3 bar g. pneumatic test; SR-25, SR-150 - 5 bar g. pneumatic test.

### Service Restrictions

1) Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including

inspection standards and tolerances, must be clearly defined.

- 2) Not for use in tank boundaries and collision bulkhead.
- 3) Cable sizes and combinations are to be typical of marine installations. These transits have not been approved for use with CLX-type armour-clad electrical cables.
- 4) Maximum and minimum tested marine cable size: 50 mm & 8 mm outside diameter.
- 5) Maximum and Minimum tested Frame Size: Size 300 & Size 50
- 6) All fire rated transits are to be fully insulated in accordance with manufacturer's installation instructions and ABS approved drawings.
- 7) For fire class A-0, sleeves are to be insulated as for class A-60 and in addition the division is to be insulated at least 200 mm around the penetration.
- 8) This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

### Comments

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) Approval not performed on behalf of any flag Administration.
- 3) Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as tested/approved prototype.
- 4) Product should be installed/used in accordance with manufacturer's instructions and limitations.
- 5) The bulkhead or deck shall be insulated in accordance with applicable regulations.
- 6) Installation of transits are only permissible where strength and fatigue characteristics are not diminished or where satisfactory structural compensation has been provided.
- 7) When requested to be used in watertight bulkheads on passenger ships or special purpose ships, the penetration system has to comply with the requirements give in SOLAS Ch. II-1 Reg. 13.2.3 Consolidated Edition 2020. This approval of penetrations passing through watertight bulkhead is not to be construed as a substitute for flag Administration's approval for the purpose of SOLAS Consolidated Edition 2020.
- 8) The product or packing is to be marked with name of manufacturer, type designation and fire rating.
- 9) The owner or operator is to maintain the Register to record any disruption (repair, modification or opening out and closing) to a cable transit or to record the installation of a new cable transit.

### Notes, Drawings and Documentation

- 01) BRE Global Test Report P101462-1010 Issue 1 dated 27 November 2019
- 02) BRE Global Test Report P101462-1015 Issue 1 dated 27 November 2019
- 03) BRE Global Test Report P101462-1014 Issue 1 dated 22 November 2019
- 04) Revision - Addition of Handiblocks with comparison of performance test reports, updated tested sizes. MA 28/01/2019
- 05) BRE Global, Comparison of performance Test Reports P101462-1006 Issue 1 dated 2 February 2018, P101462-1003
- 06) Issue 1, dated 24 November 2016 and P10462- 1004 Issue 1, dated 30 May 2017,

- 07) DNV-GL Pressure Test Survey Report Number N141GRC3 dated 22 Nov 2017
- 08) BRE Global Fire Test Report 290298A dated 15 May 2014 Marine Fire Resistance Test in Accordance with IMO
- 09) BRE Global letter of 06 February 2013 comparing test report 262822 & 282342; BRE Global Test reports 262822(01 Oct. 2010), 282342(15 Feb.2013)
- 10) MCT Brattberg AB test report nos 11203G, 11203W, 11211G, 11211W, witnessed by Lloyd's Register, dated 15 June '11.
- 11) Drawing No. 140977 Rev. D A -Class Steel/Aluminum Deck
- 12) Drawing No. 140979 Rev. C A- Class Bulkhead Steel
- 13) Drawing No. 140980 Rev. C A -Class Bulkhead Steel
- 14) Drawing No. 140981 Rev. C A -Class Bulkhead Steel
- 15) Drawing No. 1190527 Rev. A - A60 CLASS BULKHEAD STEEL
- 16) Drawing No. 1190517 Rev. A - A60 BTB LIGHT
- 17) Drawing No. 1190518 Rev. B - A60 CLASS CIS 100 SANDWICH WALL RGP SYSTEM LR
- 18) Drawing No. 1190521 Rev. A - A60 CLASS DECK STEEL
- 19) Drawing No. 1190523 Rev. A - A60 BULKHEAD STEEL
- 20) Drawing No. 1190524 Rev. A - A60 BULKHEAD STEEL
- 21) Drawing No. 1190525 Rev. A - A60 BULKHEAD STEEL
- 22) Drawing No. 1190526 Rev. A - A60 BULKHEAD STEEL

### Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 18/Oct/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

### ABS Rules

2023 Rules for Conditions of Classification, Part 1 - Marine Vessel Rules: 1-1-4/7.7, 1-1-A3 & 1-1-A4 which covers the following:

2023 Rules for Building and Classing Marine Vessel Rules: 4-8-4/21.13 & 4-8-4/29.15.

2023 Rules for Conditions of Classification, Part 1 - Offshore Units and Structures 1-1-4/9.7, 1-1-A2 & 1-1-A3

2023 Rules for Building and Classing Mobile Offshore Units: 4-3-3/1.1, 4-3-3/5.13, 5-1-1/3.5, 5-1-1/5.17 & 5-1-1/5.21

### International Standards

SOLAS Consolidated Edition 2020, Chapter II-2 Pt.C/Reg.9.3.

2010 IMO FTP Code - Resolution MSC.307(88) (Adopted 3 December 2010), 2012 Edition (entered into

force 1 July 2012), Annex 1 Part 3.

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 12-Dec-2023 6:04

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.